

Review Form 1.7

Journal Name:	International Journal of Environment and Climate Change
Manuscript Number:	Ms_IJECC_111449
Title of the Manuscript:	Multivariate Analysis and Screening of moth bean accessions for biotic stresses in the arid region of western India
Type of the Article	Original Research Article

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <p>1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript)</p> <p>2. Is the title of the article suitable? (If not please suggest an alternative title)</p> <p>3. Is the abstract of the article comprehensive?</p> <p>4. Are subsections and structure of the manuscript appropriate?</p> <p>5. Do you think the manuscript is scientifically correct?</p> <p>6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form.</p> <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<p>The manuscript seems useful. The title of the article is appropriate.</p> <p>The abstract of the article does not match the results of the article.</p> <p>The manuscript has no contradictions from a scientific point of view and can be printed with a little editing.</p> <p>The subsections and structure of the manuscript are appropriate. Most of the references and sources used are old, and this has reduced the freshness of the article. References such as the following list can greatly contribute to the scientific load of the article:</p> <p>Abberton, M., Paliwal, R., Faloye, B., Marimagne, T., Moriam, A., and Oyatomi, O. (2022). Indigenous african orphan legumes: Potential for food and nutrition security in SSA. <i>Front. Sustain. Food Syst.</i> 6, 83. doi:10.3389/fsufs.2022.708124</p> <p>CrossRef Full Text Google Scholar</p> <p>Abdallah, F., Kumar, S., Amri, A., Mentag, R., Kehel, Z., Mejri, R. K., et al. (2021). Wild <i>Lathyrus</i> species as a great source of resistance for introgression into cultivated grass pea (<i>Lathyrus sativus</i> L.) against broomrape weeds (<i>Orobanche crenata</i> Forsk. and <i>Orobanche foetida</i> Poir.) <i>Crop Sci.</i> 61, 263–276. doi:10.1002/csc2.20399</p> <p>CrossRef Full Text Google Scholar</p> <p>Abrouk, M., Ahmed, H. I., Cubry, P., Šimoníková, D., Cauet, S., Pailles, Y., et al. (2020). Fonio millet genome unlocks African orphan crop diversity for agriculture in a changing climate. <i>Nat. Commun.</i> 11, 4488. doi:10.1038/s41467-020-18329-4</p> <p>PubMed Abstract CrossRef Full Text Google Scholar</p>	<p>Singh, K., Shekhawat, N., Singh, O.V., Choudhary, M. and Ram, D. 2020. Identification for sources of resistance to biotic stresses in mothbean [<i>Vigna aconitifolia</i> (Jaeq.) Marcchal] Germplasm. <i>Int. J. Curr. Microbiol. Appl. Sci.</i> 9(5), pp.1243-1249.</p> <p>Sandhu, R., Bangarwa, S.K. and Attri, M. 2023 Effects of Biotic Stresses and Their Mitigation Strategies in Legumes: A Review. <i>Legume Research-An International Journal</i>, https://doi.org/10.18805/lr-5160.</p> <p>These two latest reference added</p>
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	<p>It is understandable.</p>	
<p>Optional/General comments</p>	<p>Conclusion This study revealed that based on hierarchical clustering, 213 accessions were grouped into fourteen clusters. Accessions with more inter-cluster distance can be utilised in the crossing program, to generate the maximum variability. It was also observed that the accessions with early and medium maturity were more affected with Cercospora leaf spot and accessions with late maturity had more incidence of yellow mosaic virus and crinkle leaf virus. Further, this study will help the researchers to select potential genotypes most suited to extreme conditions and can be</p>	

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	<p>utilised in developing new varieties.</p> <p>Alice, D. and Nadarajan, N. 2007. Pluses: screening techniques and assessment for disease resistance. All India Coordinated Research Project on MULLaRP, Tamil Nadu Agricultural University Kasturi Graphics and Printers, Coimbatore-24.</p> <p>Ashfaq, M., Khan A., Mughal, S M., Javed, N., Mukhtar, T. and Bashir, M. 2007 Evaluation of urdbean germplasm for resistance against urdbean leaf crinkle virus. <i>Pak. J. Bot</i> 39 (6): 2103-2111.</p> <p>Bhandari, M M. 1990 Correlation analysis in moth bean. Transactions of Indian Society of Desert Technology 15:33-42.</p>	
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PART 2:

	Reviewer's comment	Author's comment <i>(if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)</i>
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	